



MONTANA NATURAL HERITAGE PROGRAM

1515 East Sixth Avenue
Helena, Montana 59620
(406) 444-3009

August 31, 1992

Mrs. Margaret Wallace
P.O. Box 126
Drummond, MT 59832

Dear Mrs. Wallace:

Thank you very much for the hospitality you provided Steve Chadde and I during our recent vegetation survey of your beautiful ranch. It was a real pleasure to meet you and to visit with you.

Steve and I also enjoyed the company and assistance of Dale Clute during our survey. Please pass on our appreciation to him.

I have enclosed a list of the vegetation types Steve and I observed on your ranch. We found 28 distinct types, which is a quite high level of diversity. The global and state ranks given in the table relate to the rarity of each type. These values range from 1 (very rare) to 5 (very common). For example, the ponderosa pine/bitterbrush type (ranked G5 S2?) is very common globally but is moderately rare in Montana (to the best of our knowledge).

Thanks once again for your hospitality!

Sincerely,

Robert L. DeVelice, Ph.D.
Plant Community Ecologist

CC: Brian Kahn

BIODIVERSITY SIGNIFICANCE OF VEGETATION TYPES
ON THE WALLACE RANCH, MONTANA

report to:

Montana Field Office
The Nature Conservancy
P.O. Box 258, Helena, MT 59624

prepared by:

Robert L. DeVelice
Montana Natural Heritage Program
1515 E. 6th Ave., Helena, MT 59620

and

Steve Chadde
Montana Natural Heritage Program and
USDA Forest Service
P.O. Box 7669, Missoula, MT 59807

August 27, 1992

Wallace Ranch (ca. 13,000 acres)

owner: Mrs. Wallace (288-3585)

purchased: 1865

contact: Hank Fisher (Ms/a.)
549-0761

Riparian vegetation has been severely impacted by domestic grazing and other human development throughout Montana. However, remnant sites of relatively pristine riparian vegetation do still occur at scattered locations in the state. These sites are important reservoirs of natural biological diversity and often feature species richness and diversity values much greater than in the surrounding uplands.

At the request of Brian Kahn (Director, Montana Field Office of The Nature Conservancy) we conducted a seven-hour survey of native vegetation on the ca. 13,000 acre Wallace Ranch on August 20, 1992. Basically, the ranch is bounded on the N by I90 and the Clark Fork and on the S by the Flint Creek Range and the Deerlodge National Forest (Figure 1). The ranch includes approximately six miles of Clark Fork frontage and thus a focus of our survey was an examination of the condition of the riparian vegetation types present.

Physiographically, the ranch is highly diverse and includes residual mountain slopes and ridges, rolling uplands, and alluvial landforms. Elevations span from 4030 feet on the Clark Fork to 5800 feet on the lower ridges of the Flint Creek Range. Surficial geology includes mixed alluvial deposits along the Clark Fork and creeks bisecting the ranch, and granitic and limestone parent materials in the uplands.

The predominant riparian native vegetation type of the study area is the Populus trichocarpa/Cornus stolonifera Type (black cottonwood/red-osier dogwood; described by Hansen et al. 1991), upland grasslands feature extensive areas of the Agropyron spicatum-Poa sandbergii and Festuca idahoensis-Agropyron spicatum types (bluebunch wheatgrass-Sandberg bluegrass and Idaho fescue-bluebunch wheatgrass, respectively; Mueggler and Stewart 1980), and upland forests were predominantly the Pseudotsuga menziesii/Symporicarpos albus Type (Douglas-fir/snowberry; Pfister et al. 1977). These types are all common globally and in Montana, although high quality occurrences of the Populus trichocarpa/Cornus stolonifera Type are rare. The 28 vegetation types observed on the ranch are listed in Table 1.

Unfortunately, the condition of riparian vegetation and most vegetation types on the Wallace Ranch is highly degraded in our view. This degradation appears to be primarily the result of livestock grazing, timber harvest, and prolonged drought. In no case did the element occurrence rank of any community occurrence exceed a C rank. Bunchgrasses such as Agropyron spicatum and Festuca idahoensis are characterized by dead centers surrounded by a fringe of weak current years growth. Weedy exotic (non-native) plants are common to abundant. Primary among these species are Agropyron cristatum (crested wheatgrass), Agrostis alba (redtop; abundant in most riparian areas observed), Centaurea maculosa (spotted knapweed), Cirsium arvense (Canada

thistle), Medicago lupulina (black medic), Phleum pratense (timothy), Poa pratensis (Kentucky bluegrass), Taraxacum officinale (dandelion), and Trifolium pratense (red clover). Additionally, the upland forests are currently being extensively impacted by selection logging operations (removal of pole-sized and larger trees). Moderate to heavy cattle grazing is occurring in the grasslands and along headwater stream channels.

Although the ranch is not pristine, it features definite biodiversity values associated with multi-layered (albeit degraded) riparian vegetation. For example, an active bald eagle nest site is present along the Clark Fork in the NW portion of the ranch (Figure 1). Additionally, a significant elk herd appears to seasonally utilize the ranch's grassland and riparian habitats. However, the biodiversity condition of the ranch vegetation is under significant threat by increasing exotic species cover and soil/vegetation disturbance due to cattle and logging activity.

If The Nature Conservancy were to acquire the Wallace Ranch, it appears to us that its primary value would be for use as trade land. In any case, it would be desirable to protect the eagle nest present from disturbance. Also, many old-growth Populus trichocarpa trees are present along the Clark Fork and consideration might be given to an exotic species control program to improve the condition of these old-growth stands. However, the probability of such a control program succeeding would be low since the dominant undergrowth species (Agrostis alba) has an extensive rhizome system and is very resistant to high levels of utilization and to control efforts (Hansen et al. 1991). Improvement of the upland grasslands would also be difficult given current conditions and the low-vigor of native bunch-grasses.

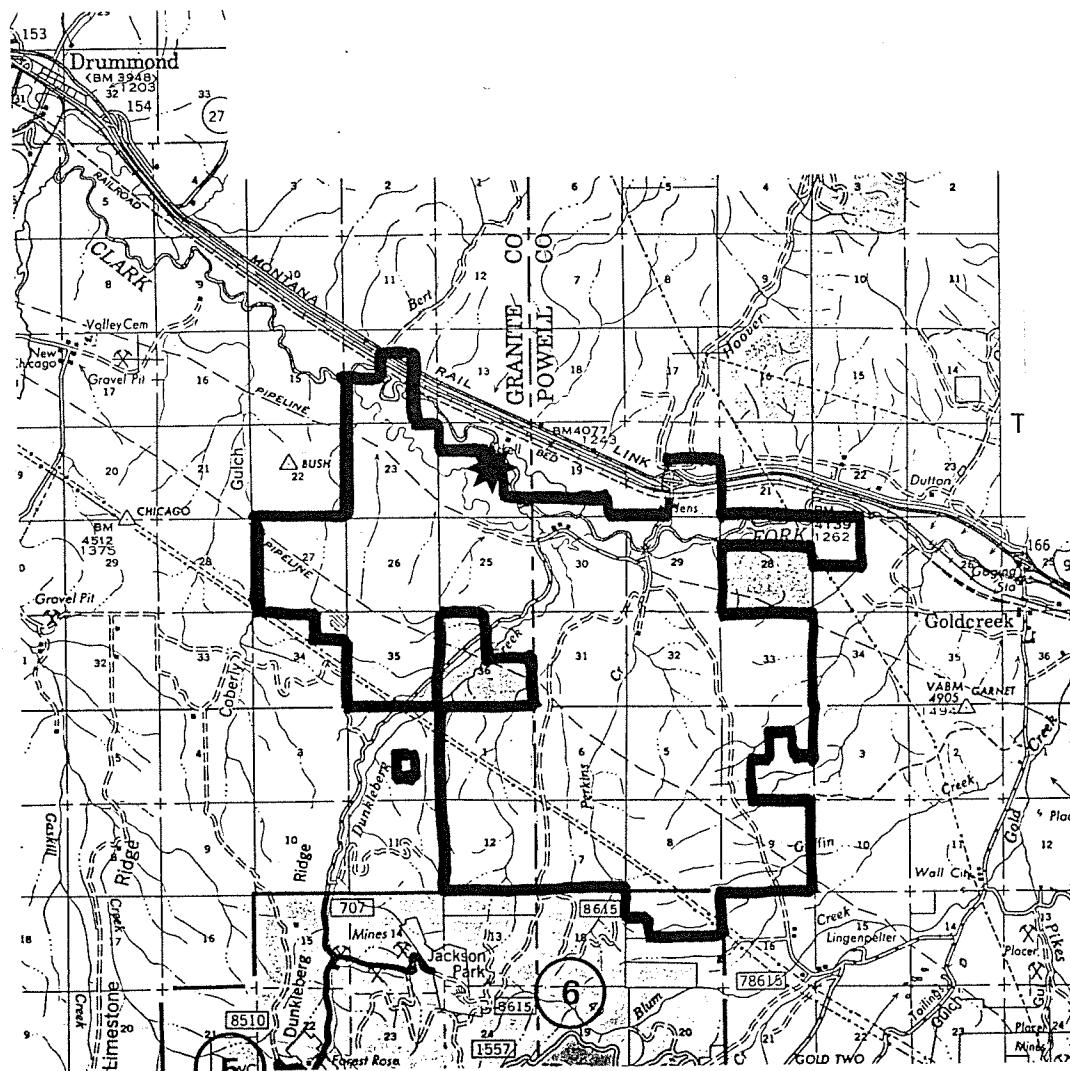


Figure 1. The Wallace Ranch, MT (map scale: 0.5" = 1 mile). The thick black line delimits the ranch boundary. The star along the northern boundary of the ranch indicates the location of the active bald eagle nest mentioned in the text. We were informed of this nest location by Dale Clute (a Wallace Ranch employee) and visited the site with him.

Table 1. Vegetation types observed on the Wallace Ranch and their global and state ranks. Species nomenclature follows Hitchcock and Cronquist (1973).

Riparian Communities (described in Hansen et al. 1991)

Agrostis alba (redtop; G4 S4)

Alnus incana (mountain alder; G4 S4)

Carex nebrascensis (Nebraska sedge; G4 S3)

Carex rostrata (beaked sedge; G5 S5)

Eleocharis pauciflora (few-flowered spike-rush; G4 S4)

Juncus balticus (Baltic Rush; G5 S4)

Juniperus scopulorum/Cornus stolonifera (Rocky Mountain juniper/red-osier dogwood; G4 S3)

Phalaris arundinacea (reed canarygrass; G4 S4)

Populus tremuloides/Cornus stolonifera (quaking aspen/red-osier dogwood; G3 S3)

Populus trichocarpa/Cornus stolonifera (black cottonwood/red-osier dogwood; G4 S4)

Populus trichocarpa/Poa pratensis (black cottonwood/Kentucky bluegrass; G5 S4)

Prunus virginiana (common chokecherry; G4 S4)

Salix exigua (sandbar willow; G5 S4)

Salix geyeriana (actually boothii)/*Carex rostrata* (Booths willow/beaked sedge; G5 S5)

Salix geyeriana (actually boothii)/*Poa pratensis* (Booths willow/Kentucky bluegrass; G5 S4)

Scirpus acutus (hardstem bullrush; G5 S4)

Symphoricarpos occidentalis (actually albus) (snowberry; G4 S4)

Typha latifolia (common cattail; G5 S5)

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Populus trichocarpa/Poa pratensis (black cottonwood/Kentucky bluegrass; G5 S4)

Prunus virginiana (common chokecherry; G4 S4)

Salix exigua (sandbar willow; G5 S4)

Salix geyeriana (actually *boothii*)/*Carex rostrata* (Booths willow/beaked sedge; G5 S5)

Salix geyeriana (actually *boothii*)/*Poa pratensis* (Booths willow/Kentucky bluegrass; G5 S4)

Scirpus acutus (hardstem bullrush; G5 S4)

Symporicarpos occidentalis (actually *albus*) (snowberry; G4 S4)

Typha latifolia (common cattail; G5 S5)

Table 1. (continued)

Upland Forests (described in Pfister et al. 1977, except where noted)

Pinus ponderosa/Agropyron spicatum (ponderosa pine/bluebunch wheatgrass; G4 S3)

Pinus ponderosa/Festuca idahoensis (ponderosa pine/Idaho fescue; G4 S3)

Pinus ponderosa/Purshia tridentata (ponderosa pine/bitterbrush; G5 S2?)

Populus tremuloides/Symphoricarpos albus (quaking aspen/snowberry; described in Cooper and Pfister 1981; G3 S3)

Pseudotsuga menziesii/Calamagrostis rubescens (Douglas-fir/pinegrass; G5 S5)

Pseudotsuga menziesii/Linnaea borealis (Douglas-fir/twinflower; G4 S4)

Pseudotsuga menziesii/Symphoricarpos albus (Douglas-fir/snowberry; G5 S5)

Upland Shrublands and Grasslands (described in Mueggler and Stewart 1980)

Agropyron spicatum-Poa sandbergii (bluebunch wheatgrass-Sandbergs bluegrass; G4 S4)

Artemisia cana/Festuca idahoensis (silver sagebrush/Idaho fescue; G4 S4)

Festuca idahoensis-Agropyron spicatum (Idaho fescue-bluebunch wheatgrass; G4 S4)

Table 1. (continued

Upland Forests (described in Pfister et al. 1977, except where noted)

Pinus ponderosa/Agropyron spicatum (ponderosa pine/bluebunch wheatgrass; G4 S3)

Pinus ponderosa/Festuca idahoensis (ponderosa pine/Idaho fescue; G4 S3)

Pinus ponderosa/Purshia tridentata (ponderosa pine/bitterbrush; G5 S2?)

Populus tremuloides/Symphoricarpos albus (quaking aspen/snowberry; described in Cooper and Pfister 1981; G3 S3)

Pseudotsuga menziesii/Calamagrostis rubescens (Douglas-fir/pinegrass; G5 S5)

Pseudotsuga menziesii/Linnaea borealis (Douglas-fir/twinflower; G4 S4)

Pseudotsuga menziesii/Symphoricarpos albus (Douglas-fir/snowberry; G5 S5)

Upland Shrublands and Grasslands (described in Mueggler and Stewart 1980)

Agropyron spicatum-Poa sandbergii (bluebunch wheatgrass-Sandbergs bluegrass; G4 S4)

Artemisia cana/Festuca idahoensis (silver sagebrush/Idaho fescue; G4 S4)

Festuca idahoensis-Agropyron spicatum (Idaho fescue-bluebunch wheatgrass; G4 S4)

LITERATURE CITED

Cooper, S. and R. Pfister. 1981. Forest habitat types of the Blackfeet Indian Reservation. Review draft, 5/21/81, for BIA, Wind River Agency, Fort Washakie, WY.

Hansen, P., K. Boggs, R. Pfister, and J. Joy. 1991. Classification and management of riparian and wetland sites in Montana. Draft version 1. Montana Riparian Association, School of Forestry, University of Montana, Missoula, MT. 478 pp.

Hitchcock, C.L. and A. Cronquist. 1973. Flora of the Pacific Northwest. University of Washington Press, Seattle, WA. 730 pp.

Mueggler, W.F. and W.L. Stewart. 1980. Grassland and shrubland habitat types of western Montana. USDA Forest Service General Technical Report INT-66. 154 pp.

Pfister, R.D., B.L. Kovalchik, S.F. Arno, and R.C. Presby. 1977. Forest habitat types of Montana. USDA Forest Service General Technical Report INT-34. 174 pp.

OCULAR PLANT SPECIES DATA

PltIDL 3

PLOT NO. 92RD067 NO. SPECIES — PNC POPTRE/5YMA/LB

| TREES | Tot Cv | MHt | FRBS | Tot Cv | MHt |
|------------------------------|------------|--------|---------|--------|--------|
| | Tal Cv | Med Cv | | Med Cv | Low Cv |
| | Low Cv | Grd Cv | CC | Grd Cv | CC |
| T 1 | | | POPTRE | 80 | |
| T 2 | | | JUNSCO | 3 | |
| T 3 | | | | | |
| T 4 | | | | | |
| T 5 | | | | | |
| SHRBS | Tot Cv | MHt | | | |
| | Tal Cv | Med Cv | | | |
| | Low Cv | Grd Cv | CC | | |
| S 1 | | | PRUNIR | 20 | |
| S 2 | | | SYMLB | 40 | |
| S 3 | Ribes spp. | | | 3 | |
| S 4 | | | ROSWOOD | 3 | |
| S 5 | | | | | |
| S 6 | | | | | |
| S 7 | | | | | |
| S 8 | | | | | |
| S 9 | | | | | |
| S10 | | | | | |
| S11 | | | | | |
| S12 | | | | | |
| GRAM | Tot Cv | MHt | | | |
| | Med Cv | Low Cv | | | |
| | Grd Cv | | CC | | |
| G 1 | | | POAPRA | 50 | |
| G 2 | | | PHLPRA | 20 | |
| G 3 | | | | | |
| G 4 | | | | | |
| G 5 | | | | | |
| G 6 | | | | | |
| G 7 | | | | | |
| G 8 | | | | | |
| G 9 | | | | | |
| G10 | | | | | |
| G11 | | | | | |
| G12 | | | | | |
| FERN Tot Cv — MHT — Med Cv — | | | | | |
| Low Cv — Grd Cv — | | | | | |
| BRYO/LICH Tot Cv — | | | | | |

COMMENTS (EODATA) --> —

—————
—————
—————

COMMUNITY SURVEY FORM

MTNHP
5/27/91

GENERAL PLOT DATA

IDENTIFICATION AND LOCATION

PLOT NO. 92RD067 MO 8 DAY 20 YEAR 92 MANUAL 91B UNITS ✓ ft m
EXAMINER(S) R. DeVelice, S. Chaddle EOCODE *
PNC Poplar/Symalib CT -
SITE Wallace Ranch STATE MT COUNTY Powe
PURP T PREC S QUADNAME Dunkleberg Creek QUADCODE 4677351
9N T/11W R/6S/ NW1/4 NW4/4 COMMUNITY SIZE (acres) -
PLOT TYPES C PLTRL variable PLOT W - SURVEY ANC
PHOTOS None
DIRECTIONS --> -

CONSERVATION RANKING

COND - Com: _____
VIAB - Com: _____
DEFN - Com: _____
RANK C Com: Weedy, degraded by grazing
MGMT: _____
PROT: _____

ENVIRONMENTAL FEATURES

DL B SOIL RPT -
SOIL UNIT - SOIL TAXON -
PM - LANDFORM - PLOT POS - SLP SHAPE - ASP -
SLOPE % - ELEVATION 4520 EROS POTENT - EROS TYPE -
HORIZON ANGLE (%): N - E - S - W - IFSLP - IFVAL -
SPFE -
GROUND COVER: - S+ - G+ - R+ - L+ - W+ - M+ - BV+ - O - = 100%
DISTURBANCE HISTORY (type, intensity, frequency, season) --> -

RIPARIAN FEATURES: Channel Width - Channel Entrench -
Surface Water - Ht. Abv. H2O - Dist. from H2O -

GENERAL SITE DESCRIPTION (landscape features and adjacent ct's)

-
-
-
-

OCULAR PLANT SPECIES DATA

PltIDL *P*

PLOT NO. 92R0066 NO. SPECIES 17 PNC AGRSPI/POASEC

| TREES | Tot Cv | MHt | FRBS | Tot Cv | MHt | CC |
|-------|-----------|--------|--------|-----------|--------|----|
| | Tal Cv | Med Cv | | Med Cv | Low Cv | CC |
| | Low Cv | Grd Cv | | Grd Cv | | CC |
| T 1 | | | F 1 | | ANTMIC | 10 |
| T 2 | | | F 2 | | LITINC | T |
| T 3 | | | F 3 | | ROTHIP | T |
| T 4 | | | F 4 | | PARSE5 | T |
| T 5 | | | F 5 | | SPHCOL | T |
| | | | F 6 | Cryanthan | | T |
| SHRBS | Tot Cv | MHt | F 7 | PHLAMUS | | T |
| | Tal Cv | Med Cv | F 8 | GAUCOC | | T |
| | Low Cv | Grd Cv | F 9 | ASTFAL | | T |
| S 1 | | ARTFRI | F10 | | | |
| S 2 | | GUTSAR | F11 | | | |
| S 3 | | | F12 | | | |
| S 4 | | | F13 | | | |
| S 5 | | | F14 | | | |
| S 6 | | | F15 | | | |
| S 7 | | | | | | |
| S 8 | | | | | | |
| S 9 | | | | | | |
| S10 | | | | | | |
| S11 | | | | | | |
| S12 | | | | | | |
| GRAM | Tot Cv | 60 | MHt | | | |
| | Med Cv | Low Cv | CC | | | |
| | Grd Cv | | | | | |
| G 1 | | AGRSPF | 40 | | | |
| G 2 | | POASEC | 20 | | | |
| G 3 | | STLCOM | 1 | | | |
| G 4 | | KOECRI | 1 | | | |
| G 5 | | AGROAS | 1 | | | |
| G 6 | | ARILON | T | | | |
| G 7 | | | | | | |
| G 8 | | | | | | |
| G 9 | | | | | | |
| G10 | | | | | | |
| G11 | | | | | | |
| G12 | | | | | | |
| | FERN | Tot Cv | MHt | Med Cv | | |
| | | Low Cv | Grd Cv | | | |
| | | | | | | |
| | BRYO/LICH | Tot Cv | | | | |

COMMENTS (EODATA) --> _____

COMMUNITY SURVEY FORM

MTNHP
5/27/91

GENERAL PLOT DATA

IDENTIFICATION AND LOCATION

MANUAL 91B UNITS ✓ ft m
PLOT NO. 92R0966 MO 8 DAY 20 YEAR 92 EOCODE *
EXAMINER(s) R. DelValice S. Chadda
PNC AGRSPE/POASEC CT -
SITE Wallace Ranch STATE MT COUNTY GRAN
PURP T PREC S QUADNAME Dunkleburg Creek QUADCODE 4611351
10N T112N R35 SSW 4S/SW 4/4 COMMUNITY SIZE (acres) -
PLOT TYPES C PLTRL variable PLOT W - SURVEY ANL
PHOTOS None
DIRECTIONS --> -

CONSERVATION RANKING

COND: — Com: _____
VIAB: — Com: _____
DEFN: — Com: _____
RANK: C Com: degraded by cattle
MGMT: —
PROT: —

ENVIRONMENTAL FEATURES

DL 6 SOIL RPT
 SOIL UNIT — SOIL TAXON —
 PM LIME LANDFORM RMDC PLOT POS SLMS SLP SHAPE — ASP 130
 SLOPE % 10 ELEVATION 4560 EROS POTENT — EROS TYPE —
 HORIZON ANGLE (%): N — E — S — W — IFSLP — IFVAL —
 SPFE —
 GROUND COVER: — S+ — G+ — R+ — L+ — W+ — M+ — BV+ — O — = 100%
 DISTURBANCE HISTORY (type, intensity, frequency, season) --> —

RIPARIAN FEATURES: Channel Width — Channel Entrench —
Surface Water — Ht. Abv. H2O — Dist. from H2O —

GENERAL SITE DESCRIPTION (landscape features and adjacent ct's)

OCULAR PLANT SPECIES DATA

Plt IDL 3

| PLOT NO. 92R0065 NO. SPECIES - PNC ? | | | |
|--------------------------------------|------------|-----|--------|
| TREES | Tot Cv | MHt | |
| Tal Cv | Med Cv | | |
| Low Cv | Grd Cv | | CC |
| T 1 | POPTRE | 60 | |
| T 2 | | | |
| T 3 | | | |
| T 4 | | | |
| T 5 | | | |
| SHRBS | Tot Cv | MHt | |
| Tal Cv | Med Cv | | |
| Low Cv | Grd Cv | | CC |
| S 1 | SAILAS | 20 | |
| S 2 | SYMALB | 20 | |
| S 3 | ROSWOOD | 20 | |
| S 4 | | | |
| S 5 | | | |
| S 6 | | | |
| S 7 | | | |
| S 8 | | | |
| S 9 | | | |
| S10 | | | |
| S11 | | | |
| S12 | | | |
| GRAM | Tot Cv | MHt | |
| Med Cv | Low Cv | | |
| Grd Cv | | | CC |
| G 1 | AGRSTD | 40 | |
| G 2 | POAPRA | 20 | |
| G 3 | Casey spp. | 20 | |
| G 4 | | | |
| G 5 | | | |
| G 6 | | | |
| G 7 | | | |
| G 8 | | | |
| G 9 | | | |
| G10 | | | |
| G11 | | | |
| G12 | | | |
| FERN | Tot Cv | MHt | Med Cv |
| | 0 | | |
| | Low Cv | | Grd Cv |
| | | | |
| BRYO/LICH | Tot Cv | 3 | |

COMMENTS (EODATA) --> _____

COMMUNITY SURVEY FORM

MTNHP
5/27/91

GENERAL PLOT DATA

IDENTIFICATION AND LOCATION

PLOT NO. 92 RD 065 MO 8 DAY 20 YEAR 92 EOCODE *
EXAMINER(s) R.L. DeVelice + S. Chadda
PNC ? CT POPTRI/CORSTO
SITE Wallace Ranch STATE MT COUNTY GRAN
PURP 1 PREC 5 QUADNAME Dunkelberg Creek QUADCODE 46113 51
10N T. 12WR 24S SE 4S NW 4/4 COMMUNITY SIZE (acres) -
PLOT TYPES C PLTRL variable PLOT W - SURVEY ANL
PHOTOS None
DIRECTIONS -->

CONSERVATION RANKING

COND - Com: _____
VIAB - Com: _____
DEFN - Com: _____
RANK C Com: weedy site
MGMT: -
PROT: -

ENVIRONMENTAL FEATURES

DL B SOIL RPT -
SOIL UNIT - SOIL TAXON -
PM MIAL LANDFORM ACTE PLOT POS WVTE SLP SHAPE - ASP Ø
SLOPE % 0 ELEVATION 4060 EROS POTENT - EROS TYPE -
HORIZON ANGLE (%): N - E - S - W - IFSLP - IFVAL -
SPFE active bald eagle nest located at site
GROUND COVER: - S+ - G+ - R+ - L+ - W+ - M+ - BV+ - O - = 100%
DISTURBANCE HISTORY (type, intensity, frequency, season) -->

RIPARIAN FEATURES: Channel Width - Channel Entrench -
Surface Water - Ht. Abv. H2O - Dist. from H2O -

GENERAL SITE DESCRIPTION (landscape features and adjacent ct's)

OCULAR PLANT SPECIES DATA

Plt IDL 3

PLOT NO. 92RD964 NO. SPECIES — PNC ?

TREES Tot Cv — Mht —
Tal Cv — Med Cv —
Low Cv — Grd Cv — CC

T 1
T 2
T 3
T 4
T 5

SHRBS Tot Cv — Mht —
Tal Cv — Med Cv —
Low Cv — Grd Cv — CC

S 1
S 2
S 3
S 4
S 5
S 6
S 7
S 8
S 9
S10
S11
S12

GRAM Tot Cv — Mht —
Med Cv — Low Cv —
Grd Cv — CC

G 1
G 2
G 3
G 4
G 5
G 6
G 7
G 8
G 9
G10
G11
G12

AGR50 60
JUNBAL 24

FRBS Tot Cv — Mht —
Med Cv — Low Cv —
Grd Cv — CC

F 1
F 2
F 3
F 4
F 5
F 6
F 7
F 8
F 9
F10
F11
F12
F13
F14
F15

FERN Tot Cv — Mht — Med Cv —
Low Cv — Grd Cv —
BRYO/LICH Tot Cv 20

COMMENTS (EODATA) --> _____

COMMUNITY SURVEY FORM

MTNHP
5/27/91

GENERAL PLOT DATA

IDENTIFICATION AND LOCATION

PLOT NO. 92R0064 MO. 3 DAY 29 YEAR 91 EOCODE *
EXAMINER(s) R. Devolice, S. Chaddle
PNC ? CT AGRSTO
SITE Wallace Ranch STATE MT COUNTY POWE
PURP T PREC M QUADNAME Dunkleberg Creek QUADCODE 4611351
18N T/ 11W R/ 38S / NE 4S / NW 4/4 COMMUNITY SIZE (acres)
PLOT TYPES C PLTRL variable PLOT W - SURVEY ANL
PHOTOS None
DIRECTIONS --> -

CONSERVATION RANKING

COND - Com: _____
VIAB - Com: _____
DEFN - Com: _____
RANK D Com: v. weedy

MGMT: -
PROT: -

ENVIRONMENTAL FEATURES

DL G SOIL RPT -
SOIL UNIT - SOIL TAXON -
PM MIAL LANDFORM ACTE PLOT POS WVIE SLP SHAPE - ASP D
SLOPE % 0 ELEVATION 4090 EROS POTENT - EROS TYPE -
HORIZON ANGLE (%): N - E - S - W - IFSLP - IFVAL -
SPFE -
GROUND COVER: - S+ - G+ - R+ - L+ - W+ - M+ - BV+ - O - = 100%
DISTURBANCE HISTORY (type, intensity, frequency, season) -->

RIPARIAN FEATURES: Channel Width - Channel Entrench -
Surface Water - Ht. Abv. H2O - Dist. from H2O -

GENERAL SITE DESCRIPTION (landscape features and adjacent ct's)

surrounded by POPTRI/CORSTO (along small perennial drainages)

OCULAR PLANT SPECIES DATA

PltIDL 3

PLOT NO. 92R0063 NO. SPECIES — PNC POPTRE/CORSTO

| | | | | |
|--------------|--------|---|--------|---|
| TREES | Tot Cv | — | MHT | — |
| | Tal Cv | — | Med Cv | — |
| | Low Cv | — | Grd Cv | — |

| | | |
|-----|--------|----|
| T 1 | POPTRE | 84 |
| T 2 | | |
| T 3 | | |
| T 4 | | |
| T 5 | | |

| | | | | | |
|--------------|--------|-----------|--------|-----------|----|
| SHRBS | Tot Cv | <u> </u> | Mht | <u> </u> | |
| | Tal Cv | <u> </u> | Med Cv | <u> </u> | |
| | Low Cv | <u> </u> | Grd Cv | <u> </u> | CC |

| | | |
|-----|--------|----|
| S 1 | PRUVIR | 10 |
| S 2 | CARSTO | 40 |
| S 3 | ROSWOO | 10 |
| S 4 | SYMALB | 3 |
| S 5 | RUBIDA | 10 |
| S 6 | | |
| S 7 | | |
| S 8 | | |
| S 9 | | |
| S10 | | |
| S11 | | |
| S12 | | |

| | | | | | |
|-------------|--------|---|--------|---|----|
| GRAM | Tot Cv | — | MHt | — | |
| | Med Cv | — | Low Cv | — | |
| | Grd Cv | — | | | CC |

| | | | |
|-----|--|--------|----|
| G 1 | | AGRSTO | 50 |
| G 2 | | | |
| G 3 | | | |
| G 4 | | | |
| G 5 | | | |
| G 6 | | | |
| G 7 | | | |
| G 8 | | | |
| G 9 | | | |
| G10 | | | |
| G11 | | | |
| G12 | | | |

FRBS Tot Cv Mht
Med Cv Low Cv
Grd Cv | CC

| | | |
|-----|--------|----|
| F 1 | SOLCAN | 3 |
| F 2 | CIRARU | 10 |
| F 3 | THE | 10 |
| F 4 | | |
| F 5 | | |
| F 6 | | |
| F 7 | | |
| F 8 | | |
| F 9 | | |
| F10 | | |
| F11 | | |
| F12 | | |
| F13 | | |
| F14 | | |
| F15 | | |

FERN Tot Cv 0 Mht Med Cv
 Low Cv Grd Cv
BRYO/LICH Tot Cv T

COMMENTS (EODATA) --> {

COMMUNITY SURVEY FORM

MTNHP
5/27/91

GENERAL PLOT DATA

IDENTIFICATION AND LOCATION

PLOT NO. 92RD#63 MO 8 DAY 20 YEAR 92 MANUAL 91B UNITS ft m
 EXAMINER(s) R. DeVelice, S. Chadda EOCODE *
 PNC POPTRE/CORSTO CT -
 SITE Wallace Ranch STATE MT COUNTY POWE
 PURP T PREC M QUADNAME Griffin Creek QUADCODE 461125B
10N T 11W R/21 S/ NE 4S/ NE 4/4 COMMUNITY SIZE (acres) -
 PLOT TYPES C PLTRL variable PLOT W - SURVEY AYL
 PHOTOS 1 - across plot
 DIRECTIONS --> -

CONSERVATION RANKING

COND: - Com: _____
VIAB: - Com: _____
DEFN: - Com: _____
RANK: C Com: weedy from domestic grazing
MGMT: -
PROT: -

ENVIRONMENTAL FEATURES

DL B SOIL RPT -
 SOIL UNIT - SOIL TAXON -
 PM MIAL LANDFORM ACTE PLOT POS WTE SLP SHAPE - ASP 0
 SLOPE % 0 ELEVATION 4120 EROS POTENT - EROS TYPE -
 HORIZON ANGLE (%): N - E - S - W - IFSLP - IFVAL -
 SPFE -
 GROUND COVER: - S+ - G+ - R+ - L+ - W+ - M+ - BV+ - O - = 100%
 DISTURBANCE HISTORY (type, intensity, frequency, season) --> -

RIPARIAN FEATURES: Channel Width - Channel Entrench -
Surface Water - Ht. Abv. H2O - Dist. from H2O -

GENERAL SITE DESCRIPTION (landscape features and adjacent ct's)

OCULAR PLANT SPECIES DATA

PltIDL 3

PLOT NO. 92R0062 NO. SPECIES — PNC JUNSCO / CORSTO

| TREES | Tot Cv | MHt | FRBS | Tot Cv | MHt | CC |
|-------|--------|--------|-----------|--------|--------|--------|
| T 1 | | | F 1 | | | |
| T 2 | | | F 2 | | | |
| T 3 | | | F 3 | | | |
| T 4 | | | F 4 | | | |
| T 5 | | | F 5 | | | |
| | | | F 6 | | | |
| | | | F 7 | | | |
| SHRBS | Tot Cv | MHt | F 8 | | | |
| | Tal Cv | Med Cv | F 9 | | | |
| | Low Cv | Grd Cv | F10 | | | |
| S 1 | | | F11 | | | |
| S 2 | | | F12 | | | |
| S 3 | | | F13 | | | |
| S 4 | | | F14 | | | |
| S 5 | | | F15 | | | |
| S 6 | | | | | | |
| S 7 | | | | | | |
| S 8 | | | | | | |
| S 9 | | | | | | |
| S10 | | | | | | |
| S11 | | | | | | |
| S12 | | | | | | |
| GRAM | Tot Cv | MHt | | | | |
| | Med Cv | Low Cv | | | | |
| | Grd Cv | | CC | | | |
| G 1 | | | | | | |
| G 2 | | | | | | |
| G 3 | | | | | | |
| G 4 | | | | | | |
| G 5 | | | | | | |
| G 6 | | | | | | |
| G 7 | | | | | | |
| G 8 | | | | | | |
| G 9 | | | | | | |
| G10 | | | | | | |
| G11 | | | | | | |
| G12 | | | | | | |
| | | | FERN | Tot Cv | MHt | Med Cv |
| | | | | | Low Cv | Grd Cv |
| | | | BRYO/LICH | Tot Cv | 10 | |

COMMENTS (EODATA) --> _____

COMMUNITY SURVEY FORM

MTNHP
5/27/91

GENERAL PLOT DATA

IDENTIFICATION AND LOCATION

PLOT NO. 92RD062 MO 8 DAY 20 YEAR 92 EOCODE * MANUAL 91B UNITS ✓ ft m
EXAMINER(s) R. DeVelice, S. Chadda
PNC JUNS CO / CORS TO CT POPTRI / CORS TO
SITE Wallace Ranch STATE MT COUNTY POWE
PURP T PREC m QUADNAME Griffin Creek QUADCODE 4611258
10N T 11W R 29S NE 4S NE 4/4 COMMUNITY SIZE (acres) —
PLOT TYPES C PLTRL variable PLOT W — SURVEY ANL
PHOTOS None
DIRECTIONS --> —
—
—

CONSERVATION RANKING

COND — Com: —
VIAB — Com: —
DEFN — Com: —
RANK C Com: cow use has been mod→ heavy and cow
piles are present
MGMT: —
PROT: —

ENVIRONMENTAL FEATURES

DL B SOIL RPT —
SOIL UNIT — SOIL TAXON —
PM MIAL LANDFORM ACTE PLOT POS WVTE SLP SHAPE — ASP Ø
SLOPE % Ø ELEVATION 4120 EROS POTENT — EROS TYPE —
HORIZON ANGLE (%): N — E — S — W — IFSLP — IFVAL —
SPFE —
GROUND COVER: — S+ — G+ — R+ — L+ — W+ — M+ — BV+ — O — = 100%
DISTURBANCE HISTORY (type, intensity, frequency, season) --> —
—
—

RIPARIAN FEATURES: Channel Width — Channel Entrench —
Surface Water — Ht. Abv. H2O — Dist. from H2O —

GENERAL SITE DESCRIPTION (landscape features and adjacent ct's)

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